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(54) RUSTPROOF PIGMENT

(57)Abstract:

PURPOSE: To provide the title pigment giving rustproof performance equal to or higher than that for chromic acid ion, virtually free of pollution, to be applied on metallic materials, having phosphoric acid ion and vanadic acid sources.

CONSTITUTION: (A) a phosphoric acid ion source (e.g., phosphorus pentoxide, orthophosphoric acid, metal phosphate, metal polyphosphate) and (B) a vanadic acid ion source (e.g., pentavalent vanadium compound) are mixed in the molar ratio: $P_2O_5/V_2O_5=0.3$ to 100, being calcined at pref. $\geq 600^\circ C$ followed by grinding, thus obtaining the objective pigment capable of suppressing weight reduction due to corrosion, corrosion cracking, hydrogen embrittlement, corroding, end-face corrosion, corrosion at processed parts (e.g., by bending), coating film blistering etc.